

Title (en)
RETICLE POD

Title (de)
RETIKELHALTER

Title (fr)
RECIPENT DE RETICULE

Publication
EP 1928764 B1 20111102 (EN)

Application
EP 06815463 A 20060927

Priority

- US 2006037465 W 20060927
- US 72077805 P 20050927
- US 72076205 P 20050927
- US 72077705 P 20050927
- US 77453706 P 20060218
- US 77439106 P 20060218

Abstract (en)
[origin: WO2007038504A2] A container that provides support structure and environmental control means including, for example, minimal contact with a wafer or reticle contained therein that cooperates with wafer or reticle to provide a diffusion barrier mitigates against particles settling on a face of the wafer or reticle. The container includes a base having a flat, polished surface with protrusions upon which the wafer or reticle rests. The protrusions are of a geometry, such as a sphere, that imparts minimum contact with the wafer or reticle and suspends the wafer or reticle over the base, providing a gap therebetween. The gap isolates the wafer or reticle from the flat, polished surface of the base, but is dimensioned to inhibit migration of particles into the gap, thereby preventing contamination of sensitive surfaces of the wafer or reticle. Diffusion filters provide pressure equalization without filter media. Moveable reticle pins on the top cover provide reticle restraint. Dual containment pod embodiment provides further isolation and protection.

IPC 8 full level
H01L 21/67 (2006.01)

CPC (source: EP KR US)
B65D 85/48 (2013.01 - KR US); **G03F 1/66** (2013.01 - EP US); **H01L 21/673** (2013.01 - KR); **H01L 21/67353** (2013.01 - EP US); **H01L 21/67359** (2013.01 - EP US); **H01L 21/67383** (2013.01 - EP US); **H01L 21/67386** (2013.01 - EP US)

Cited by
US10607871B2; TWI690771B

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
WO 2007038504 A2 20070405; WO 2007038504 A3 20070628; CN 101321674 A 20081210; CN 101321674 B 20101013; EP 1928764 A2 20080611; EP 1928764 A4 20100804; EP 1928764 B1 20111102; JP 2009510525 A 20090312; JP 2012177930 A 20120913; JP 5054012 B2 20121024; JP 5608702 B2 20141015; KR 101442264 B1 20140922; KR 101442451 B1 20140922; KR 101532893 B1 20150702; KR 20080069969 A 20080729; KR 20130108676 A 20131004; KR 20140069364 A 20140609; MY 154896 A 20150814; SG 10201400835Q A 20140730; SG 165407 A1 20101028; TW 200726706 A 20070716; TW I391304 B 20130401; US 2009301917 A1 20091210; US 2013020220 A1 20130124; US 2014183076 A1 20140703; US 8231005 B2 20120731; US 8613359 B2 20131224; US 9745119 B2 20170829

DOCDB simple family (application)
US 2006037465 W 20060927; CN 200680044197 A 20060927; EP 06815463 A 20060927; JP 2008533516 A 20060927; JP 2012104706 A 20120501; KR 20087009883 A 20060927; KR 20137024088 A 20060927; KR 20147013210 A 20060927; MY PI20080816 A 20060927; SG 10201400835Q A 20060927; SG 2010068617 A 20060927; TW 95135787 A 20060927; US 201213562087 A 20120730; US 201314139653 A 20131223; US 8812006 A 20060927